

Recovery Plan Action Status

Plan Name: Recovery Plan for Six Plants from the Mountains Surrounding the Los Angeles Basin

Plan Status: Final

Plan Date: 30-Sep-99

Lead Agency: USFWS

Lead Office: Ventura Fish And Wildlife Office

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644-1766)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Braunton's milk-vetch (Astragalus brauntonii), Lyon's pentachaeta (Pentachaeta lyonii), Conejo dudleya (Dudleya abramsii ssp. parva), Verity's dudleya (Dudleya verityi), Marcescent dudleya (Dudleya cymosa ssp. marcescens), Santa Monica Mountains dudleyea (Dudleya cymosa ssp. ovatifolia)	1	1.1	Protect habitat and occurrences through lead agency implementation of authorities	Not Started			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost will vary with level of development activity
Braunton's milk-vetch (Astragalus brauntonii), Lyon's pentachaeta (Pentachaeta lyonii), Conejo dudleya (Dudleya abramsii ssp. parva), Verity's dudleya (Dudleya verityi), Marcescent dudleya (Dudleya cymosa ssp. marcescens), Santa Monica Mountains dudleyea (Dudleya cymosa ssp. ovatifolia)	1	1.2	Conduct constraints analysis	Not Started			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Cost will vary with level of development activity

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Braunton's milk-vetch (<i>Astragalus brauntonii</i>), Lyon's pentachaeta (<i>Pentachaeta lyonii</i>), Conejo dudleya (<i>Dudleya abramsii</i> ssp. <i>parva</i>), Verity's dudleya (<i>Dudleya verityi</i>), Marcescent dudleya (<i>Dudleya cymosa</i> ssp. <i>marcescens</i>), Santa Monica Mountains dudleyea (<i>Dudleya cymosa</i> ssp. <i>ovatifolia</i>)	1	1.4	Establish rare plant reserves	Not Started			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	TBD
Braunton's milk-vetch (<i>Astragalus brauntonii</i>), Lyon's pentachaeta (<i>Pentachaeta lyonii</i>), Conejo dudleya (<i>Dudleya abramsii</i> ssp. <i>parva</i>), Verity's dudleya (<i>Dudleya verityi</i>), Marcescent dudleya (<i>Dudleya cymosa</i> ssp. <i>marcescens</i>), Santa Monica Mountains dudleyea (<i>Dudleya cymosa</i> ssp. <i>ovatifolia</i>)	2	2.1	Implement appropriate management occupied habitats	Not Started			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	TBD

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Braunton's milk-vetch (<i>Astragalus brauntonii</i>), Lyon's pentachaeta (<i>Pentachaeta lyonii</i>), Conejo dudleya (<i>Dudleya abramsii</i> ssp. <i>parva</i>), Verity's dudleya (<i>Dudleya verityi</i>), Marcescent dudleya (<i>Dudleya cymosa</i> ssp. <i>marcescens</i>), Santa Monica Mountains dudleyea (<i>Dudleya cymosa</i> ssp. <i>ovatifolia</i>)	2	3.1	Establish a survey program, and follow protocols, for surveys	Ongoing Current	FY 2009		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Research	Species Expert	Ann Dorsey is drafting a protocol monitoring strategy for <i>Dudleya parva</i> , <i>Dudleya cymosa</i> ssp. <i>marcescens</i> , <i>Dudleya verityi</i> , and <i>Dudleya cymosa</i> ssp. <i>ovatifolia</i> .
Lyon's pentachaeta (<i>Pentachaeta lyonii</i>)	2	3.2.2	Surveys for <i>Pentachaeta lyonii</i>	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	10,000/year
Lyon's pentachaeta (<i>Pentachaeta lyonii</i>)	2	4.2	<i>Pentachaeta lyonii</i> research	Partially Complete	FY 1995 - FY 1999		U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	

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Braunton's milk-vetch (<i>Astragalus brauntonii</i>), Lyon's pentachaeta (<i>Pentachaeta lyonii</i>)	2	4.4	Develop techniques to undertake artificial enhancement or introduction efforts for <i>Astragalus brauntonii</i> and <i>Pentachaeta lyonii</i>	Not Started			Rancho Santa Ana Botanic Garden	Work type not yet selected	Labor type not yet selected	
Braunton's milk-vetch (<i>Astragalus brauntonii</i>), Lyon's pentachaeta (<i>Pentachaeta lyonii</i>)	2	4.5	Collect, store, and develop seed bulking techniques for <i>Astragalus brauntonii</i> and <i>Pentachaeta lyonii</i>	Ongoing Not Current	Prior to FY 1995		Rancho Santa Ana Botanic Garden	Work type not yet selected	Labor type not yet selected	
Braunton's milk-vetch (<i>Astragalus brauntonii</i>), Lyon's pentachaeta (<i>Pentachaeta lyonii</i>), Conejo dudleya (<i>Dudleya abramsii</i> ssp. <i>parva</i>), Verity's dudleya (<i>Dudleya verityi</i>), Marcescent dudleya (<i>Dudleya cymosa</i> ssp. <i>marcescens</i>), Santa Monica Mountains dudleyea (<i>Dudleya cymosa</i> ssp. <i>ovatifolia</i>)	3	5.1	Develop private lands plan	Not Started			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	TBD
Braunton's milk-vetch (<i>Astragalus brauntonii</i>), Lyon's pentachaeta (<i>Pentachaeta lyonii</i>), Conejo dudleya (<i>Dudleya abramsii</i> ssp. <i>parva</i>), Verity's dudleya (<i>Dudleya verityi</i>), Marcescent dudleya (<i>Dudleya cymosa</i> ssp. <i>marcescens</i>), Santa Monica Mountains dudleyea (<i>Dudleya cymosa</i> ssp. <i>ovatifolia</i>)	3	5.2	Develop protected lands plans	Not Started			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	TBD

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